

1981 TRANSACTIONS

TABLE OF CONTENTS

SYMPOSIUM A — CAPITAL COST CONTROL

A-1	Cost Engineering Education: A Systems Approach	H.N. Ahuja, CCE Walter J. Campbell, CCE	A-1
A-2	A Conceptual Framework for the Analysis of Proposed Cost Effectiveness Improvement Projects in the Construction Industry	Robert F. Baker Donald C. Taylor	A-2
A-3	Capital Cost Containment - Large Project Engineering Phase	Rollin A. Kreps	A-3
A-4	Cost Control of a Negotiated Contract	Norman H. Matthews	A-4
A-5	Quantity Trending During Engineering	Fred Mahler Kenneth Rea	A-5
A-8	Benefits from Control of Engineering Companies	Marc F. Ducros Pierre P.R. Gueguen J.J. Eldin	A-8
A-9	How Much Does Cost Control Cost?	Albert J. Bevacqua, CCE	A-9
A-0	Simplified Integrated Comparative Methods of Cost and Schedule Control for Commercial and Industrial Building Construction	Frederick Wm. Mueller, CCE	A-0

SYMPOSIUM B — CAPITAL COST ESTIMATING

B-1	Basics of Prototype Model Pricing	Walter T. Vanaman, CCE	B-1
B-3	Mathematical Model for Installed Cost of Pipe Insulation	Warren W. Clauson	B-3
B-4	Creation of a Single Chart for the Back-up and Estimation of Instrument Materials in Process Plants	Gerard Beguinot Jean Camion	B-4
B-5	Modern Tunnel Engineering	Douglas D. Dunbar	B-5
B-6	The Importance of an Accurate Final Budget Construction Cost Estimate and How to Prepare It	Alfred E. Schaer	B-6
B-7	Statistical Techniques in Cost Engineering	Carlos Uriegas-Torres	B-7
B-8	Estimating for Management	Daniel P. Elliott, CCE	B-8
B-9	The Application of Probabilistic Cost Estimating to an Advanced Energy System	William C. Finch Kathryn A. Young	B-9
B-0	TVA's Modular Concepts for Detailed Estimating	James A. Johnson Ronald W. Clevenger	B-0
B-A	Impact of Business Environment on Project	Henry C. Thorne, CCE	B-A
B-B	Estimating Plant Construction Cost for Brazil	Jose I. Sarasua, CCE	B-B

B-C	Rules for Describing Estimates	William M. McMahon, Jr. B-C Stanley J. Krumsky
B-D	Time Saving Devices in Estimating	Jack D. Shiles B-D
B-E	Quantity Surveying and Basic Construction Estimating	Luther J. Strange, Jr. B-E

SYMPOSIUM C — COMPUTER APPLICATIONS

C-2	What's the Hang-up with Computers in Construction Cost Estimating?	H.P. Connor C-2
C-3	The System of Project Control	George Suhanic C-3

SYMPOSIUM D — CONSTRUCTION COST MANAGEMENT

D-1	Project Management in the 1980's - the Ultimate Approach	Kenneth M. Guthrie, CCE D-1 Paul E. Konkell
D-2	A Program to Improve Productivity of Field Directed Construction Operations	Michael H. Casten D-2
D-3	Organization Structure to Produce Projects	R.J. Balfour D-3
D-4	Plant Layout	K.R. Bates D-4 J.D. Brown W.A. Kitchen
D-5	Alternate Approaches to Managing Construction	William H. Choquette D-5
D-7	The Cost Engineer's Role in Construction Claims and Claims Prevention	R.P. Vanden Bosche, CCE D-7
D-8	Interactive System for Construction Management Project	Jack F. Enrico, CCE D-8
D-9	A Cost-Benefit Analysis Method Which Includes a Correction for Inflation	Alan D. Burkhart, CCE D-9
D-A	Project Controls - A Force-Account Approach to CM	Thomas P. Roche D-A
D-B	Cost Engineering in the Arabian Gulf	K.K. Balakrishnan D-B
D-C	Motivation and Productivity in the Engineering Environment	Gary L. Leach, CCE D-C
D-D	Cost Control and Lump Sum Contracting (Coping with all the changes)	John R. Healy, CCE D-D
D-E	Anatomy of a Construction Claim	R.P. Vanden Bosche, CCE D-E

SYMPOSIUM E — COST INDEXING

E-1	Material Escalation Claims on International Projects- A Case Study	Peter E. Ullman	E-1
E-3	The Many Facets of Escalation	James V. Padrnos	E-3

SYMPOSIUM F — MANAGEMENT SCIENCE

F-1	Organization Planning - Concepts and Implications	S.L.G. Jain	F-1
F-3	Application of Outlier Analysis Methods to Cost Engineering	Fred G. Haag	F-3
F-4	A Conceptual Aspect of Project Management: Point of No Return	Dr. Yash P. Gupta	F-4
F-5	The Optisystem	Cwen E. Rye, CCE	F-5

SYMPOSIUM G — OPERATING/MANUFACTURING COSTS

G-1	Manufacturing Planning - A Must for Estimating Ad- vanced Energy System Hardware Costs	Franklin D. Postula	G-1
G-2	Operating Costs of Solid Waste Plants	Sergio E. Martinez, CCE	G-2
G-3	International Operating Cost Survey of a Continuous Process System	William Carter Deegan, CCE	G-3
G-4	The Estimating Art of Cutting Metals	Phillip F. Ostwald	G-4
		Charles H. Kahng	
G-5	Multiproduct Venture Economics with Inflation and Debt Financing	I.V. Klumpar, CCE	G-5
		Mike Loreth	
		Jon Press	

SYMPOSIUM H — PLANNING AND SCHEDULING

H-1	Project Control: An Integrated Approach to Con- struction Planning and Cost Control	Philip W. Dixon	H-1
H-2	The Role of Probability in Scheduling	Aaron Rose, CCE	H-2
H-3	Integration of Cost and Scheduling Systems	Paul B. Shiring, Jr., CCE	H-3
H-5	System for Establishing Drawing Status	John G. Koval, CCE	H-5
H-6	Large Capital Project: Optimizing Project Economics Thru Schedule Management	Philip S. Hiestand	H-6
H-7	Planning and Scheduling an International Project	Mark Grinberg	H-7
H-8	Is Coding Your Nightmare? See How We Solved It	Hector L. Abran	H-8

SYMPOSIUM I — PRODUCTIVITY

I-1	Measuring Capital Productivity	Jerry L. Hamlin, CCE	I-1
I-2	Worker Productivity: Characteristics and Measurement	Ira B. Gregerman	I-2
I-3	Productivity Evaluation of a Drafting Function in an A-E Firm	John Klim, CCE Merle B. Grady	I-3
I-4	Productivity Defined	Jean-Claude Huot	I-4
I-5	Productivity - Open vs. Closed Shop	John R. Heizelman	I-5
I-6	Using Pay to Motivate Construction Job Performance	Alexander Laufer John D. Borcharding	I-6
I-8	The Productivity Measurement of Construction Labor Using Work Sampling	Ira B. Gregerman	I-8

SYMPOSIUM J — PROFESSIONAL AFFAIRS

J-1	The Impact of Environmental Regulation on the U.S. Constructor	James M. Neil Sam A. Damico	J-1
J-2	Supply and Demand for Engineers	Arthur F. Dershowitz, CCE	J-2

SYMPOSIUM K — UTILITY COST MANAGEMENT

K-1	Energy Dilemma	Paul Wellman	K-1
K-2	Shale Oil by 1990?	E.D. Isaac Dan Svoboda	K-2
K-3	Management of Nuclear Retrofit Work	Deepak Nanda	K-3
K-4	Conceptual Estimating of Power Plants Use of the Construction Labor Demand System	John R. Healy, CCE	K-4
K-5	Geothermal Power Generation	George K. Crane	K-5
K-6	Capacity Decision-Making: An Economic Framework Using Input-Output Analysis	James H. Eblen David A. Rhodes	
K-7	Analysis of Published Data for Parametric Estimating of Boiler Plants - Part II	Laxmidas V. Popat, CCE	K-7

SYMPOSIUM M — ENERGY COSTS

M-3	Conception and Evaluation of a Large Industrial Project by Using Linear Programming	Dr. Foster M. Burton	M-3
M-4	Coal-Oil Mixture FPL's Sanford Com Demonstration Project	L. Donald Slepov Alan S. Mendelssohn, CCE	M-4
M-5	Economic Evaluation of Energy Projects	Kenneth K. Humphreys Barry G. McMillan John K. Alderman Edward J. Simcoe	M-5

